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1 Dynamic scratchpad memory management for code in portable systems with an MMU

Bernhard Egger, Jaejin Lee, Heonshik Shin
February 2008 ACM Transactions on Embedded Computing Systems (TECS),   Volume 7 Issue 2
Publisher: ACM

Full text available: 📄 pdf(1.43 MB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 67,   Downloads (12 Months): 77,   Citation Count: 0

In this work, we present a dynamic memory allocation technique for a novel, horizontally partitioned memory subsystem targeting contemporary embedded processors with a memory management unit (MMU). We propose to replace the on-chip instruction cache ...

Keywords: Code placement, compilers, heterogeneous memory, paging, portable systems, postpass optimization, scratchpad, victim cache, virtual memory

2 Not quite the average: An empirical study of Web use

Harald Weinreich, Hartmut Obendorf, Eelco Herder, Matthias Mayer
February 2008 ACM Transactions on the Web (TWEB),   Volume 2 Issue 1
Publisher: ACM

Full text available: 📄 pdf(967.16 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 136,   Downloads (12 Months): 136,   Citation Count: 0

In the past decade, the World Wide Web has been subject to dramatic changes. Web sites have evolved from static information resources to dynamic and interactive applications that are used for a broad scope of activities on a daily basis. To examine the ...

Keywords: Navigation, WWW, Web, browser interfaces, hypertext, usability, user study, web browsing, web design

3 Adaptive incremental checkpointing for massively parallel systems

Saurabh Agarwal, Rahul Garg, Meeta S. Gupta, Jose E. Moreira
June 2004 ICS '04: Proceedings of the 18th annual international conference on Supercomputing
Publisher: ACM

Full text available: 📄 pdf(225.94 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 11,   Downloads (12 Months): 95,   Citation Count: 4

Given the scale of massively parallel systems, occurrence of faults is no longer an exception but a regular event. Periodic checkpointing is becoming increasingly important in these systems. However, huge memory footprints of parallel applications place ...

Keywords: fault-tolerance, incremental checkpoint, large scale systems, probabilistic checkpoint

4 On incremental file system development

Erez Zadok, Rakesh Iyer, Nikolai Joukov, Gopalan Sivathanu, Charles P. Wright
May 2006   ACM Transactions on Storage (TOS),   Volume 2 Issue 2
Publisher: ACM
Full text available: pdf(260.40 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 13, Downloads (12 Months): 221, Citation Count: 3

Developing file systems from scratch is difficult and error prone. Using layered, or stackable, file systems is a powerful technique to incrementally extend the functionality of existing file systems on commodity OSes at runtime. In this article, we ...

Keywords: I/O manager, IRP, Layered file systems, VFS, extensibility, stackable file systems, vnode

5 Realistic books: a bizarre homage to an obsolete medium?

Yi-Chun Chu, David Bainbridge, Matt Jones, Ian H. Witten
June 2004   JCDL '04: Proceedings of the 4th ACM/IEEE-CS joint conference on Digital libraries
Publisher: ACM
Full text available: pdf(2.24 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 88, Citation Count: 7

For many readers, handling a physical book is an enjoyably exquisite part of the information seeking process. Many physical characteristics of a book-its size, heft, the patina of use on its pages and so on-communicate ambient qualities of the document ...

Keywords: 3D book visualisation, Java and OpenGL, visual metadata

6 Off the beaten tracks: exploring three aspects of web navigation

Harald Weinreich, Hartmut Obendorf, Eelco Herder, Matthias Mayer
May 2006   WWW '06: Proceedings of the 15th international conference on World Wide Web
Publisher: ACM
Full text available: pdf(440.42 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 270, Citation Count: 6

This paper presents results of a long-term client-side Web usage study, updating previous studies that range in age from five to ten years. We focus on three aspects of Web navigation: changes in the distribution of navigation actions, speed of navigation ...

Keywords: browser interfaces, clickstream study, hypertext, navigation, user modeling

7 Semantics of static pointcuts in aspectJ

Pavel Avgustinov, Elnar Hajiyev, Neil Ongkingco, Oege de Moor, Damien Sereni, Julian Tibble, Mathieu Verbaere
January 2007 ACM SIGPLAN Notices, Volume 42 Issue 1
Publisher: ACM
Full text available: pdf(678.34 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 118, Citation Count: 1

In aspect-oriented programming, one can intercept events by writing patterns called *pointcuts*. The pointcut language of the most popular aspect-oriented programming language, AspectJ, allows the expression of highly complex properties of the static ...

Keywords: aspect-oriented programming, datalog, logic programming, pointcuts, term rewriting

8 Semantics of static pointcuts in aspectJ

Pavel Avgustinov, Elnar Hajiyev, Neil Ongkingco, Oege de Moor, Damien Sereni, Julian Tibble, Mathieu Verbaere
January 2007 POPL '07: Proceedings of the 34th annual ACM SIGPLAN-SIGACT symposium on Principles

of programming languages

Publisher: ACM

Full text available: pdf(678.34 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 118, Citation Count: 1

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Keywords: aspect-oriented programming, datalog, logic programming, pointcuts, term rewriting

9   On-the-fly web content integrity check boosts users' confidence
Soroush Sedaghat, Josef Pieprzyk, Ehsan Vossough
November 2002 Communications of the ACM, Volume 45 Issue 11
Publisher: ACM

Full text available: pdf(182.67 KB) html(25.45 KB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 16, Downloads (12 Months): 66, Citation Count: 1

> Malicious attacks on Web servers by intruders and hackers are prime concerns of organizations, administrators of Web sites, as well as users who access them.

10 An analytical model for software-only main memory compression
Irina Chihaia, Thomas Gross
June 2004   WMPI '04: Proceedings of the 3rd workshop on Memory performance issues: in conjunction with the 31st international symposium on computer architecture
Publisher: ACM

Full text available: pdf(261.51 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 23, Citation Count: 0

> Many applications with large data spaces that cannot run on a typical workstation (due to page faults) call for techniques to expand the effective memory size. One such technique is memory compression.Understanding what applications under what conditions ...

11 Effective memory protection using dynamic tainting
James Clause, Ioannis Doudalis, Alessandro Orso, Milos Prvulovic
November 2007 ASE '07: Proceedings of the twenty-second IEEE/ACM international conference on Automated software engineering
Publisher: ACM

Full text available: pdf(179.50 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 24, Downloads (12 Months): 56, Citation Count: 0

> Programs written in languages that provide direct access to memory through pointers often contain memory-related faults, which may cause non-deterministic failures and even security vulnerabilities. In this paper, we present a new technique based on dynamic ...

Keywords: dynamic tainting, hardware support, illegal memory accesses

12 PlayAnywhere: a compact interactive tabletop projection-vision system
Andrew D. Wilson
October 2005 UIST '05: Proceedings of the 18th annual ACM symposium on User interface software and technology
Publisher: ACM

Full text available: pdf(1.72 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 23, Downloads (12 Months): 193, Citation Count: 6

We introduce PlayAnywhere, a front-projected computer vision-based interactive table system which uses a new commercially available projection technology to obtain a compact, self-contained form factor. PlayAnywhere's configuration addresses installation, ...

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13 Geometric model reconstruction from streams of DirectX 3D game application

Zhigeng Pan, Xiaochao Wei, Jian Yang

June 2005   ACE '05: Proceedings of the 2005 ACM SIGCHI International Conference on Advances in computer entertainment technology

Publisher: ACM

Full text available: pdf(164.24 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 85, Citation Count: 0

This paper presents a method of intercepting data stream, command stream and rendering states from DirectX 9 graphics pipeline by hooking the low-level graphics library. It also shows that it is useful to reconstruct geometric models or render streams ...

Keywords: DirectX 9, geometric model, graphics pipeline, reconstruction

---

14 HijackGL: reconstructing from streams for stylized rendering

Alex Mohr, Michael Gleicher

June 2002   NPAR '02: Proceedings of the 2nd international symposium on Non-photorealistic animation and rendering

Publisher: ACM

Full text available: pdf(1.66 MB)   Additional Information: full citation, abstract, references, cited by, index terms

Bibliometrics: Downloads (6 Weeks): 6, Downloads (12 Months): 54, Citation Count: 2

This work shows that intercepting a low-level graphics library command stream and reconstructing a declarative representation is practical and useful, especially for exploring new rendering styles. We show not only how the basic mechanics of intercepting ...

Keywords: 3D, interactive, non-invasive, non-photorealistic, real-time, stylized

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15 Overcoming barriers to restructuring in a modular visualisation environment

Olav Beckmann, Anthony J. Field, Gerard Gorman, Andrew Huff, Marc Hull, Paul H. J. Kelly

October 2004   LCR '04: Proceedings of the 7th workshop on Workshop on languages, compilers, and run-time support for scalable systems

Publisher: ACM

Full text available: pdf(423.95 KB)   Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 25, Citation Count: 0

This paper explores the potential for automatic cross-component optimisation in the Python / VTK-based MayaVi modular visualisation environment. The idea is to delay execution of the VTK components called from the MayaVi tool, which requires no significant ...

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16 Switchblade: enforcing dynamic personalized system call models

Christof Fetzer, Martin Süßkraut

April 2008   Eurosys '08: Proceedings of the 3rd ACM SIGOPS/EuroSys European Conference on Computer Systems 2008

Publisher: ACM

Full text available: pdf(760.92 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

System call interposition is a common approach to restrict the power of applications and to detect code injections. It enforces a model that describes what system calls and/or what sequences thereof are permitted. However, there exist various issues ...

Keywords: security, system call interposition, system call models, taint analysis

17 Switchblade: enforcing dynamic personalized system call models
Christof Fetzer, Martin Süßkraut
April 2008   ACM SIGOPS Operating Systems Review, Volume 42 Issue 4
Publisher: ACM
Full text available: pdf(760.92 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 0, Citation Count: 0

System call interposition is a common approach to restrict the power of applications and to detect
code injections. It enforces a model that describes what system calls and/or what sequences thereof
are permitted. However, there exist various issues ...

Keywords: security, system call interposition, system call models, taint analysis

18 SecVisor: a tiny hypervisor to provide lifetime kernel code integrity for commodity OSes
Arvind Seshadri, Mark Luk, Ning Qu, Adrian Perrig
October 2007 SOSP '07: Proceedings of twenty-first ACM SIGOPS symposium on Operating systems
          principles
Publisher: ACM
Full text available: pdf(264.11 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 218, Citation Count: 0

We propose SecVisor, a tiny hypervisor that ensures code integrity for commodity OS kernels. In
particular, SecVisor ensures that only user-approved code can execute in kernel mode over the entire
system lifetime. This protects the kernel against code ...

Keywords: code attestation, code injection attacks, code integrity, hypervisor, memory virtualization,
preventing

19 SecVisor: a tiny hypervisor to provide lifetime kernel code integrity for commodity OSes
Arvind Seshadri, Mark Luk, Ning Qu, Adrian Perrig
October 2007 ACM SIGOPS Operating Systems Review, Volume 41 Issue 6
Publisher: ACM
Full text available: pdf(264.11 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 22, Downloads (12 Months): 218, Citation Count: 0

We propose SecVisor, a tiny hypervisor that ensures code integrity for commodity OS kernels. In
particular, SecVisor ensures that only user-approved code can execute in kernel mode over the entire
system lifetime. This protects the kernel against code ...

Keywords: code attestation, code injection attacks, code integrity, hypervisor, memory virtualization,
preventing

20 Using hypervisor to provide data secrecy for user applications on a per-page basis
Jisoo Yang, Kang G. Shin
March 2008 VEE '08: Proceedings of the fourth ACM SIGPLAN/SIGOPS international conference on Virtual
          execution environments
Publisher: ACM
Full text available: pdf(342.24 KB)   Additional Information: full citation, abstract, references, index terms

Bibliometrics: Downloads (6 Weeks): 84, Downloads (12 Months): 84, Citation Count: 0

Hypervisors are increasingly utilized in modern computer systems, ranging from PCs to web servers
and data centers. Aside from server applications, hypervisors are also becoming a popular target for
implementing many security systems, since they provide ...

Keywords: application protection, data privacy, hypervisor, virtualization

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